EXTRA CARE NEEDED IN MOULTING PERIOD

Precantion Makes Better Layers and Breeders When Right Time Has Arrived.

SHOULD HURRY SEASON

Method of Feeding Is One Way and Picking Feathers Another.

By FRANK HECK,

The moulting period for fowls is more

Practical Poultryman and Editor of Successful Poultry Journal.

The moulting period for fowls is more or less exhausting and is a severe tax on avitality. This is especially true if the birds are two years of age or older.

There are, of course, exceptional individual cases, but as a general rule the above statements may be depended upon. In many cases fowls three and four years old will go through the moulting period. old will go through the moulting period in perfect health and vigor, and will be ready for another season of laying and breeding without having required any

ready for another season to any very unusual care or attention. In other cases the first moulting period will leave the bird in such condition that it will be of little value in the future. Much depends upon the constitutional vigor of the fowl, gained through inheritance or resulting from proper development from the time the chick is hatched till it reaches maturity.

Hereditary weakness is very apt to show itself in various forms during the moulting period, and then is the time for the poultryman to rid his flock of such specimens as clearly show that they are not fit to produce offspring which will possess reasonable stamina, vigor and health.

possess reasonable stamina, vigor and heaith.

The prudent breeder, however, will not fail to give his moulting fowls a little extra attention. He will find it advantageous to do this even though he is only slightly interested in them and regardless of whether he has only a few chickens in a back yard or a farm full. It is folly to wilfully neglect the fowls to such extent that they will be unfitted for the breeding pens next season, or will reach the winter months in such physical condition that there will be practically no egg production at just the time when it is most desirable and most valuable.

There is nothing difficult about properly caring for the fowls, and there is no complicated system of management necessary. The following bit of advice should be specially considered. Let the reader get it fixed in his mind that these simple duties constitute the gist of he entire reater.

Give the fowls a rest from the breed-

Give the fowls a rest from the breed-Give the fowls a rest from the breeding pen. Do not force them for egg production. Rid the poultry house and yards completely of all vermin and filth. Keep the premises scrupulously clean. Avoid overcrowding and all other conditions which tend to irritate the fowls. See that there is a constant supply of fresh cool water for them to drink. Shield them from the contract of the seep that the s extreme heat. Shade or some kind of protection from the sun is absolutely necessary. The above suggestions cover the matter thoroughly in a general way.

The main object to be accomplished is

The main object to be accomplished is to get the fowls through the moult in a perfectly healthy condition and as early as possible in the fail, so that they will be ready for laying by at east December 1. It is seldom advisable to attempt to unduly force nature in hastening the moult, but sometimes it may be done without injury. The light and heavy feeding method is a successful one if judiciously employed. The plan is to check egg production by giving the fowls not more than half the regular quantity of food and to feed bulky foodstuffs, such as out clover, alfalfa and all kinds of as out clover, alfalfa and all kinds of green foods. The night meal should con-sist of whole grain and in about half

the usual amount.

If the breeder has more than one yard for his fowls, it will help matters to change the flocks, giving them pens to which they are not accustomed. This aids in checking egg production. After the fowls have been dieted in this way for two or three weeks there should be a complete change in the bill of fare. They should be given a great variety of food and the amount gradually increased till and the amount gradually increased till and the amount gradually increased till at the end of a week, when all they can possibly eat should be placed before them. A mash composed of ground grains, in-cluding a liberal amount of bran, should be given once a day. Oil meal or lin-seed meal should be added in liberal seed meal should be added in liberal quantities, but not enough to cause looseness of the bowels. Sunflower seed, if easily obtainable, mity also be used to advantage. The effect of this continued heavy feeding will be to cause the old plumage to drop rapidly, and the new feathers will come in uniformly and ouickly.

ther method of forcing the moult Another method of forcing the moult is to pick the feathers as they Apen. This requires a great deal of time if there are many fowls to be handled. The feathers may be picked without injury to the fowls if the feathers are dead. The saving in time is the difference between the ripening of the feathers and the time when nature has dried and shrunken the quill so that the feather falls out. In testing this method, pick up a bird and pluck a so that the feather falls out. In testing this method, pick up a bird and pluck a few feathers from the breast. If they pull easily and are shrunken and dry at the end of the quill they may be picked without hurting the bird, but if the ends are very moist or if there is a trace of blood in the opening in the skin such feathers should not be plucked. A little practice will enable a person to judge from the general appearance of the skin and the feather if the plumage may be plucked or not.

and the feather if the piumage may be plucked or not.

If there is no inclination upon the part of the breeder to adopt any unusual method of forcing the moult he may facilitate it in a natural way by giving the fowls the general care previously outlined. If a hen persists in sitting she should be allowed to hatch a brood of chicks even though they must be disposed of as brollers. She will moult much sooner if handled in that way.

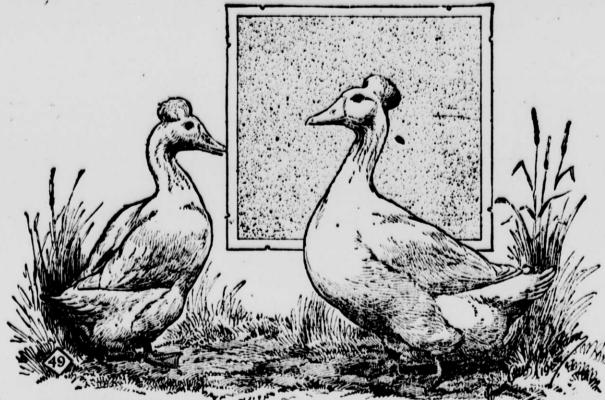
Another point which the amateur poul-

posed of as brollers. She will moult much sooner if handled in that way.

Another point which the amateur poultryman should bear in mind is that the fowls cannot be expected to produce many eggs during the moulting period, and there should be no attempt to get a heavy egg yield by feeding condiments and egg laying rations. The food should consist of ordinary grain mixtures with liberal quantities of green food and as much meat and oily foods as the fowls will stand. Some of the fowls in nearly every flock will lay fairly well and moutt at the same time, but this condition is not especially desirable, because it usually means less eggs during the winter.

There should be a complete rest during the moulting period and every effort made to get the birds into full feather and in perfect health and vigor before cold weather comes. If we are breeding poultry solely for egg production, it is advisable to dispose of all fowls which are persistently late in moulting each season. There are many cases where fowls will go well into the winter before fully completing the moult, and such birds are not profitable as layers. It seems, too, that some such specimens stamp this undesirable characteristic upon their progeny and that no amount of good care and

USED ALMOST ENTIRELY FOR ORNAMENTAL PURPOSES



Pekin duck and averages about one pound less in weight. Its plumage is pure white and bill are orange yellow. The distinguishing feature of this variety is a large creat of ing and rearing are restricted chiefly for exhibition only. Although good layers and splendid growers, the relatively higher price of breeding stock forbids their use on commercial duck farms, where other varieties may be purchased at less cost.

AT STATE FAIR IS BIG

Besides Having All Conveniences It Can Accommodate Heavy Entry.

The rapid growth of the poultry indus-try in New York State and throughout the country generally has increased an-nually the number of entries at the New York State Fair until the quarters pro-vided for the poultry display have be-come sadly inadequate. There have been rumors of a new poultry building each year, but it has remained for William H. Manning, the newly appointed super-

H. Manning, the newly appointed superintendent of poultry, to see it actually
constructed and made ready for use.

It was not many years ago that the
poultry display at the State Fair
was considered of only minor importance, but it has increased in proportion gradually until it is by far the
greatest of all living stock exhibits and
recognized as one of the chief drawing
cards of the fair. The new building has
been designed and constructed not only cards of the fair. The new building has been designed and constructed not only from the standpoint of architectural beauty but to furnish ample room for the accommodation and caring for all exhibits and at the same time provide every convenience to the visiting public. The main building is 250 by 125 feet and with the two wings makes a total length of 369 feet. All walls are of brick, the exterior being a light buff and the interior a light gray in color. In general style it con-

gray in color. In general style it con-forms with the other buildings now on

the ground.

The lighting and ventilation are of the best. Besides the many windows and doorways, there are large skylights.

In the main building is a wide gallery provided with seats, overlooking the main floor for the accommodation of visitors. floor, for the accommodation of visitors. In the centre of the building on the ground floor is a concrete duck pond with columns and balustrades. During fair week this will contain one of the finest collections of rare species of waterfowl ever shown. The entire building will be conjuged with of rare species of waterfowl ever shown. The entire building will be equipped with Empire coops of improved design, made specially for the State Fair Commission. There will be wide assless between the various lines of cooping and each row of coops will be protected by a strong iron railing standing about 2½ feet in front of the coops to prevent the visitors annoying or molesting the birds. All turkeys, ducks and geese will be cooped turkeys, ducks and geese will be cooped outside the building in concrete and steel wire coops, similar to cages in zoological parks. On the balcony floor is located a

nd association meetings.

The building, complete in every detail, is pronounced the finest poultry exhibition hall in the world. In addition to the building are many other worthy features that have been added, which should be instrumental in making this year's poul-try show larger and better than ever before. Under the direction of Supt. Manning a special poultry prize list has been issued. It contains several new classes, including a large egg classification. pens of various varieties of ducks, &c., not formerly listed. In addition to the liberal regular prizes \$800 in special prizes will be offered.

ecture room that may be utilized for club

Barney Mosher of Johnstown, who has acted as floor superintendent at Madison Square Garden for several years past, will serve in the same capacity at Syracuse this year. Capable men will be in charge of the exhibits. This year for the first time the poultry exhibit will be kept open in the evenings. Competition is open to the world and every one is invited to attend. The dates are September 8 to 13.

ONE MAN TO RUN FARM.

Missouri Experiment Station Will Try to Prove Theories.

A one man poultry farm is being es-tablished by the Missouri State Experi-mental Station at Mountain Grove. Five acres have been set aside and a model possiry demonstration farm has been planned, and is being established and fully equipped just as the station would recommend it.

Thousands of people have asked themselves the question, "Can I make a living from poultry on five acres, and if so, how?" It is this question which Mr. Quisenberry and his associates have set out to answer. Only such methods as already have been tested and proved successful at the experiment station will be used. Their best methods of feeding, their best colony house, breeding house, laying house, and all the methods of care and measurement which have proved best and management which have proved best with them will be put into actual prac-tice on this farm for all the dollars and

tice on this farm for all the dollars and cents which they can make out of it. The plans of the farm are unique and are arranged with a view to saving labor as much as possible.

It is intended that one man shall do all the work on this farm. The live stock probably will consist of one brood mare and one cow. A certain amount of strawberries, raspberries, cherries and small fruits and vegetables will be grown. The plants begin to show signs of growth in the spring rake the straw from the plants begin to show signs of growth in the spring rake the straw from the lands begin to show signs of growth in matted rows plant the rows four feet apart and permit the runners to grow and fill up the spaces between the plants. well into the winter before fully completing the moult, and such birds are not 1,000 laying hens and enough breeding form the program of 1,000 laying hens and enough breeding tops of the plants, keeping it well under the foliage about the base of the plants, leaving it between the rows to keep prove to be profitable. The buildings and all plans will be started as if the farm unproductive one, and from every view-point, including financial profit, it is desirable that this period be as short as possible and that it be confined to the summer months.

Careful records of receipts and expenses will be kept, as well as records of the methods used, and the results sublished from time to time.

NEW POULTRY BUILDING GARDENING NOTES FOR THE SUBURBAN AND COUNTRY HOME

> HAVE STRAWBERRIES November.

They may be safely planted in the otherwise there will be no fruit. The hottest, driest weather without serious catalogues tell whether varieties are check to growth. Ordinary layer plants perfect or pistillate. set out this autumn will not produce a satisfactory crop of fruit until June 1915, so a year is gained in planting pot grown plants. To be more explicit. it actually pot grown plants are produced from the runners on plants growing in the field. The runners are permitted to take root when small pots are plunged or sunk in the earth beside them; the runner is severed from the parent plant, the



Pot grown strawberry.

where it is allowed to develop. The In planting pot grown plants dip the spring a liberal supply of commercial balls of earth in water to thoroughly fertilizer should be supplied, analyzing moisten them and be sure to make the not less than 4 per cent, nitrogen, 10 soil firm about each plant.

manure, and pulverize the surface of ing after rain or when the plants the soil/thoroughly. ground bone is also recommended.

There are a great many early fruiting Garden From June to sorts described in the nurserymen's catalogues, including new and improved good strawberries. varieties and all of the old favorites. in making selections of plants if August will produce a crop of the pistillate varieties are selected perfect largest and finest berries next June. varieties must be grown near them,

in various parts of the country from requires. time to time have reported new ever-

improved varieties have resulted.
On July 24 the writer picked fruit of several varieties of autumn bearing strawberries on the grounds of J.
T. Lovett, Little Silver, New Jersey.
The berries were just beginning to ripen at that time and although some were not well colored still the flavor was as sweet and the berries as sound as any of the early fruiting varieties.
The true autumn bearing strawberries should not be confused with the sandy soils it is always advisable to

have been offered by some seedsmen and are almost sure to be a disappoint Pot grown plants of the autumn threadlike roots are thus confined to fruiting strawberries can be planted

the pot, so that in shipping the pots are any time during August or early in removed and the root, which has formed September and if properly treated will almost a solid ball, is shipped intact and make a good start this season and a the plant does not suffer for want of strong growth early next spring, pro-nourishment from the loss of any of its ducing a good late crop next year. roots as is the case when plants are The soil should be prepared as dishipped that have grown in the earth, rected for the early berries and next

per cent, acid phosphate and 10 per If you want a satisfactory strawberry cent. potash, using twelve quarts over bed select the richest soil possible and each 100 feet of row, being careful not dig or plough deeply, turning under a to get it on the leaves or nearer than liberal application of well rotted stable three inches to the plants, never apply-A top dressing of wet. This treatment can be continued

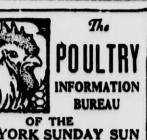


Autumn fruiting strawberry, Progressive, half size.

Strawberries require full sunlight, so hausted by the large yield of fruit, when to not attempt to make your bed where a rest may be given for a month bet will be shaded by trees. For small gardens set the plants in

rows two feet apart and the plants fifteen inches apart in the rows. If to e worked with the cultivator have the rows three feet apart and the plants one foot apart in the row. Cut off the runners as fast the they appear. If to be grown in matted rows plant the rows

fore the next application.



NEW YORK SUNDAY SUN

THIS bureau acts as "Central" to (connect buyer and seller. It tells you how, when and where to buy stock, supplies, baby chicks, eggs for hatching, &c. Timely news of the poultry world, special articles of inter-est, &c., will be found in Section of The Sunday Sun.

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be three or four weeks before they flower again, when the blossoms should be removed as before. If the blossoms are not removed after August 1, the fruit will form and ripen from Au-

gust 20 to September 1. vated all the season, keeping down the weeds, which would rob the plants of nourishment. The early varieties will not flower a second time, if the blos-soms are removed, and this is the chief difference between the early and late fruiting kinds.

continuous and abundant supply of fruit from the early varieties bearing in June until the buds are killed by heavy frosts on the late autumn croppers. The early berries have been constantly improving from the old Wilson, which was thought a wonder when it was introduced, now practically forgotten. These newer berries excel in size, flavor and productiveness, and with the same effort the autumn fruit-

ing varieties should show equally great The Advice of Large Growers.

mprovements.

L. J. Farmer of New York State, a large grower of strawberries and one of the first to grow and recommend the autumn fruiting varieties, sums up his experience in the following suggestion: The soil should be rich and in good ondition in order to have strawberry plants thrive at any time of the year, and this is especially important when they are planted in the autumn, because they have such a short time to become established before the alternate freezing and thawing of winter weather.

I advise planting on land that has been used the same season for early vegetables, such as peas or potatoes. The land must be well cultivated and in good condition. It will not do to use a piece that has been used for grass or any crop that has not received frequent cultivation throughout the season, as the plants will succumb before they start.

The land must be well cultivated and in good condition. It will not do to use are white in plumage, like the Pekin duck, are will be exhibited. As a rule they basket is filled with chicken benessing the large real tarts a score or more will be exhibited. As a result the committee room basket is filled with chicken benessing the large real tarts a score or more will be exhibited. As a rule they basket is filled with chicken benessing the large real tarts a score or more will be exhibited. As a rule they basket is filled with chicken benessing the large real tarts a score or more will be exhibited. As a rule they basket is filled with chicken benessing the large real tarts a score or more will be exhibited. As a rule they basket is filled with chicken benessing the large real tarts a score or more will be exhibited. As a rule they basket is filled with chicken benessing the committee committee clerks and Senator attentions of feathers on the back of their heads. This must be firm and not wabbly, and of the committee room basket is filled with chicken benessing the committee clerks and Senator attentions of feathers on the back of their heads. This must be firm and not wabbly, and of the committee clerks and Senator attentions of the committee clerks and senator attentions of the committee of The land must be well cultivated and start.

Good garden soil, such as you would onsider satisfactory and in proper contition for a flower garden, will grow one of the special states of the special s

ries should not be confused with the sandy soils it is always advisable to been offered by some seedsmen, watering must not be done in the hot. The Long Island Show at Patchogue.

Cultivate from the time of planting dise in addition to regular cash prizes. up to freezing weather, and apply a handful of commercial fertilizer between the plants once a month until freezing time.

Get your plants into the ground as soon as received, and with as little

exposure as possible. T. C. Kevitt of New Jersey, who has raised record breaking crops of strawberries, in addition to approving the general cultural directions we given says to plant only pot grown plants in August or September and recmmends in addition to turning under a liberal supply of well rotted manure a top dressing of dried blood, sold by eedsmen and dealers in fertilizers.

In watering lawns with a hose use only a fine spray directed so the water will fall softly like rain.

If the plants blossom in May the CRESTED WHITE DUCKS **USED FOR ORNAMENTS**

The plants must be thoroughly culti- Cost More Than Pekins, Which Have All Their Utility Qualities.

By LOUIS PAUL GRAHAM.

With the substantial start that has now been made it will be indeed strange if many improved varieties are not produced, so that strawberries can be profitably grown commercially to give a continuous and abundant supply of fruit.

SENATOR STORMED BY CHICKEN.

Washington Housewives Send Them by Parcel Post. When Senator Tillman, who is on a diet

by order of his physician, asserted some-what peevishly, "The art of frying chicken, is unknown in Washington," he had not is unknown in Washington," he had not reckoned with the housewives of the Disc. trict of Columbia, many of them Southerners and jealous of their ability to cook chicken in any fashion.

As a result of the aspersion indignant women and other admirers of the South Carolina statesman have been inundating him with felled chicken by

him with fried chicken by parcel and messengers. Each day the Senator committee room takes on the appearance whibitions, chiefly sender on it, although many containe of classification, notes defying the Senator to deep the



A crate of strawberries picked October 20, 1912.

Good garden soil, such as you would consider satisfactory and in proper condition for a flower garden, will grow good strawberries.

I find that later plants with plenty of roots quite satisfactory and less expensive than potted plants. For varieties I cannot give definite instruction, because varieties vary so much with different treatment and on different kinds of soil.

The following varieties succeed admirably on the strong, rich soil of northern New York. For very early, Early

Autumn Fruiting Varieties.

It is difficult to surpass the horticultural record of New York State for the introduction of new and valuable fruits, flowers and vegetables.

Cultivated strawberries have shown a tendency for some years to continue flowering and bearing long after the regular fruiting season, and newspapers in various parts of the country from Po not wait for a rain to set out the and then too it would be difficult to ob-

time to time have reported new everbearing strawberries, but it remained for a New York State man. Samuel Cooper of Cattaraugus county, to develop a true autumn bearing strawberry that could be relied upon to produce regularly at this season.

Mr. Cooper named his berry Pan-American, from which several new and improved varieties have resulted.

On July 24 the writer picked fruit

Do not wait for a rain to set out the plants at the soil will pack about them and afterward "bake" hard. It is better to set them out—when the soil is confined to a few who keep them for ornamental purposes or to others who rear them for exhibition alone.

They average about one pound less in will have all night to present the treatment of the durks five to seven bounds, according to age. The ducks are good fayers and will sit, hitted and then too it would be difficult to obtain that number of "breeders." Not enough of them are bred.

At present the breading of crested ducks is confined to a few who keep them for continental purposes or to others who rear them for exhibition alone.

They average about one pound less in wight than the Pelin, the durks five to seven bounds. according to age. The ducks are good fayers and will sit, hitten and present the breading of them are bred.

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They average about one pound less in several new and the plants will have all night to pre-

watering must not be done in the not sunshine or it will do more harm than sunshine or it will do more harm than bas decided to hold its first annual show good. Draw a thin layer of earth up at Patchogue from October 28 to Notation the plant after the water has

sunk into the soil, which prevents will place the awards. The association will offer a number of silver cups and a large assortment of valuable

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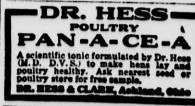
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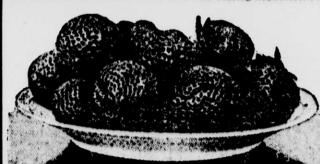
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Big, Red, Juicy Berries Next June I am recognized throughout the country as a strawberry plant grower. For 35 years and more have specialized in strawberries, and know my plants almost as intimately as you do your children. Some of the most which years and most successful varieties were introduced by me. For metance, the Gandy, Morning Star, Silver Coin, etc. Readers of THE NEW YORK SUN want berries quickly. None of you want to wait two Springs for a crop, as you positively must if you set out anything but pot-grown plants.

This year I have a magnificent lot of plants of the wonderful Van Fleet hybrids, varieties that I have been testing during the last five years, and I can conscientiously say I have never grown a strawberry that I can recommend more highly, as best in every way. I have named them Edmund Wilson Early Jersey Giant Late Jersey Giant

They are strong, healthy growers, and immense yielders of brilliant red berries of enormous size with the exquisite flavor of the wild strawberry.



ricties, with prices and full cultura directions. Now is the Time It takes time properly prepare the bed for plants. I'll tell you how to do it for largest yield of biggest and tublest berries.

J. T. LOVETT Men nouth Nursers Box 222